

ALINE-8110 PRO-8110



ALINE-8110 & PRO-8110 WiFi Mesh Metropolitan Area Network solution extends the capability of WiFi Local Area Network technologies (IEEE802.11) from providing just local area network connectivity to a wider reach for "wide-area" coverage without messy wiring and wired backbone connection.

ALINE-8110 & PRO-8110 WiFi Mesh Metropolitan Area Network is designed for Enterprises as well as Residential (End-User) to have wireless broadband connectivity, with security, management and mobility taking into consideration.

Our WiFi Wireless Mesh Network solution addresses the market requirements for networks that are highly scalable and self configurable, offering end users secure, seamless roaming beyond traditional WLAN boundaries and provides easy deployment in areas that do not (or cannot) support a wired backhaul. ALINE-8110 & PRO-8110 solution is well-suited for providing broadband wireless access in areas that traditional WLAN systems are unable to cover.

The fundamental Network architecture of ALINE-8110 & PRO-8110 is given in Figure-1, and is built upon our Dual-Radio Access Point (ALINE-8110 & PRO-8110 NodeAP), where one of the Radios serve as the backbone network infrastructure for Internet routing protocol, and the 2nd Radio form the end-user up/down stream wireless link.

ALINE-8110 & PRO-8110 solution includes point-to-point and point-to-multipoint architecture with either normal (100mW) and/or extended (400mW) RF output transmission with external Antenna. With integration of routers, security features & adaptive backhaul routing algorithm & mobile IP for providing both Internet Access and WiFi VoIP applications.

#### **Key Features**

#### ♦ Internet & Access

Compliance with IEEE802.11b/g/a standard with 100mW or 400mW transmission DHCP Server/Client, DNS Router, SNMP, VPN, NTP and Remote Syslog Customizable Firewall, WEP, WPA, Zero-Configuration with Adaptive DNS HTTP/HTTPS Secured Login, PPPoE and Access Control List Support.



#### ♦ Service & Management

Support SNMP V1,2,3 and Integrated with ALink-8110 Network Management Suite Support up to 250 users simultaneously with both LAN and WLAN interface

#### Advanced

Mobile IP (with Mobile Location Register Server), IAPP, VPN Server,
Built-in with QoS and traffic shaping mechanism for channel traffic control for individual user, and applications, and Compliance with iPass International Roaming
Service Priority Optimal Link State Routing (MDOLSR) Protocol

Specification					
Hardware		Intel® IXP425 highly integrated & versatile single-chip network processor			
WLAN	Standard	IEEE802.11b/g (AP) or IEEE802.11a/b/g/ (Backhaul)			
Frequency Channels Support (AP Mode)		Depending on Countries Channel assignment			
		IEEE 802.11b/g			
		America/ Canada: 11 channels			
		Europe: 13 channels			
		Japan: 14 channels			
		France: 4 channels			
	Range Access (AP)	0-2Km			
	Frequency Support	Depending on Countries Channel assignment			
	(Backhaul)	IEEE 802.11b/g (2.4GHz)			
		IEEE 802.11a (5.0GHz)			
	Range Access (Backhaul)	0-2Km			
	Date Rate	11Mbps, 54Mbps with Dynamic fallback			
	Antenna	12dBi Omni or Directional Antenna			
Protocol		IP, NAT, DHCP, NTP, PPPoE, DNS			
Security		WEP, AES, IEEE802.1x, WPA1/2, Firewall & VPN (PPTP, L2TP & X.509)			
Authentication		HTTP/ HTTPS Login with SSL Encryption, 802.1x and AAA RADIUS			
Services		Zero-Configuration, Proxy bypass, DNS feed through, Mobile IP, IAPP,			
		QoS and 200kB Internal Web Space, Free Web serving for "Specific Area"			
Management		NMS, Local/Centralize Webbase Configuration, SNMP V1/2/3,			
		AP Discovery, Remote Syslog and Remote Firmware Upgrades			
	WAN	1*10/100 BaseT, Auto-Negotiation			
Ports	LAN	1*10/100 BasetT, Auto-Negotiation			
LED Indicators		Power, LAN, WAN & WLAN			
Temperature Range		-30 ~ +70°C (Operating), -40~80°C (Storing)			
Humidity		Max. 95% Non-condensing			



Ordering Information				
ALINE-8110	Outdoor Mesh Gateway AP, 2*RF(802.11a/b/g), PoE			
PRO-8110				
ALINE-8110R	Outdoor Mesh Relay AP, 2*RF(802.11a/b/g), PoE			
PRO-8110R				

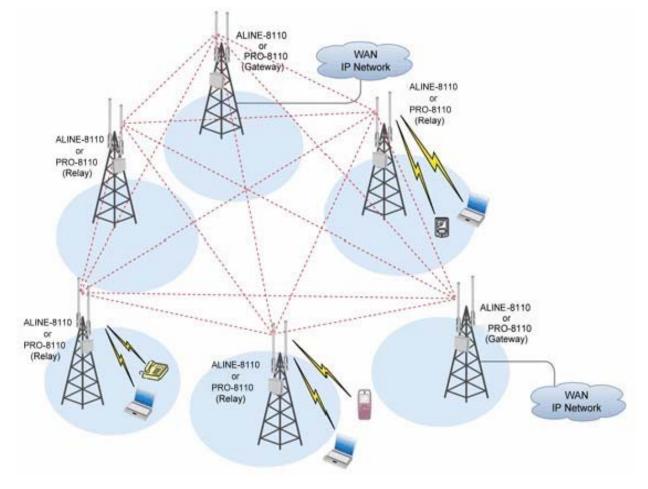
### Application

ALINE-8110 & PRO-8110 Outdoor WiFi Mesh Metropolitan Network can be deployed for

■ Intern Building Connection WiFi Network

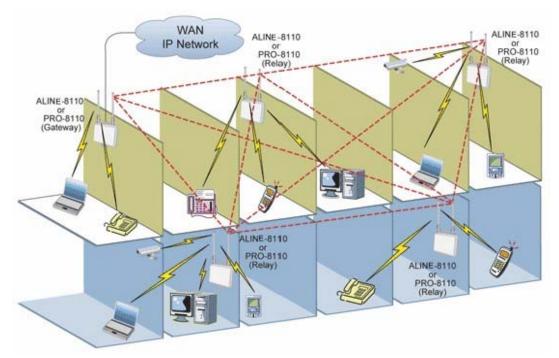
University Campus Network

- Hospital Network
- Security Monitoring Network
- WiFi City & WiFi Township
- Localized Intra Network restricted zone
- Wireless Local Loop for VoIP and Data Communication

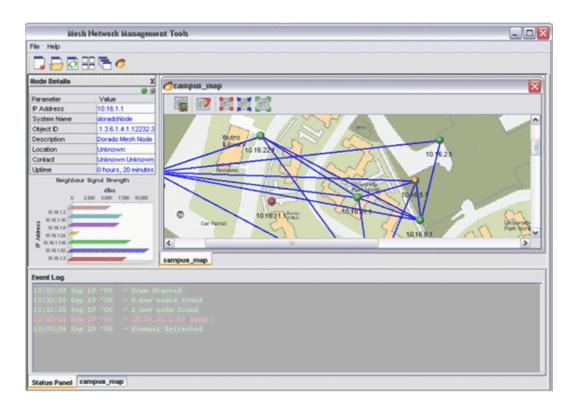




Example of ALINE-8110 & PRO-8110 WiFi Indoor Mesh Network Deployment Scenario and Applications



Example of ALINE-8110 & PRO-8110 Network Management Suite





Standard Accessories					
25M Cable	1.5M Cable	2M Cable			
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Bracket Kit (For ALINE-8110)	Bracket Kit *2(For PRO-8110)	2.4G & 5G Ant			
Power ov	Таре				